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PHOTOGRAPHIC INTELLIGENCE REPORT

MOSCOW LYUBERTSY REFINERY
MOSCOW, USSR

Declass Review by NIMA/DoD

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MOSCOW LYUBERTSY REFINERY
MOSCOW, USSR

This refinery is located in the Lyubertsy sector of Moscow, adjacent to the Moskva River, approximately 8.7 nautical miles southeast from the center of the city (see Figures 1 & 2). The geographic coordinates of the approximate center of this installation are 55 38 50N - 37 48 45E.

Lyubertsy Petroleum Refinery occupies an irregularly shaped area of nearly 600 acres. The maximum dimensions are approximately 6,700 feet E-W and 5,500 feet N-S.

Satellite missions over this area between [REDACTED] provide the only recent usable photographic coverage of this refinery. For purposes of comparison, photo enlargements from three of these missions are included with this report (Figures 3-5). Because of the small scale of available photography the refinery fenceline could not be discerned, therefore, making the boundary line only approximate. On Figure 3, the refinery is delineated and the various processing, storage, and support facilities are outlined and numbered. The following descriptions of plant facilities are keyed to this figure:

25X1D

- (1) Tank farm, probable crude storage area with tanks and underground probable concrete storage reservoirs
- (2) Processing area, includes possible petroleum treating units, process storage tanks, and unidentified processing units
- (3) Tank farm, probable process storage
- (4) Probable distillation area with possible topping unit and other unidentified processing units
- (5) Multipurpose area, contains administrative and shop buildings and water treatment facilities
- (6) Processing unit, probably either thermal cracking or atmospheric-vacuum distillation
- (7) Two processing units, probably either thermal cracking or atmospheric-vacuum distillation
- (8) Area of possible vapor recovery from thermal crackers and possible treating units
- (9) Multipurpose area, containing shops and rail served probable packaging, shipping, and receiving buildings
- (10) Probable light ends processing units (2), with gas holder and horizontal and vertical tankage

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- (11) Unidentified processing unit, with adjacent flare tower
- (12) Rail served shipping and receiving area with tank car loading and unloading racks, probable final product storage, and probable processing unit
- (13) Processing area, possible reforming or cracking operation
- (14) Processing area, two possible light ends installations
- (15) Tank farm, possible product storage
- (16) Area of unidentified activity, possibly associated with refinery
- (17) Possible refinery associated petrochemical installation with adjacent water treatment area and a flare tower
- (18) Docking facilities and tank farm on the Moskva River

Level of Activity

Considerable expansion of facilities has taken place at this refinery since [REDACTED]. Sections where additions or deletions have occurred are enumerated and these changes described below: (Keyed to Figure 3)

- (1) Four probable concrete reservoirs and one large tank were constructed in the north portion of this area during [REDACTED]
- (11) An unidentified long processing building was started in this area in the summer of [REDACTED] and appears complete by the summer of [REDACTED]. A flare tower present as late as the fall [REDACTED] is not operating on photographic coverage from [REDACTED]
- (12) Several storage tanks have been erected and basins dug in this area since [REDACTED]
- (14) The south processing unit in this area appears to have been completed after [REDACTED]
- (17) Construction on this large possible petrochemical industry and associated water treatment facilities started in [REDACTED] and appears near completion in [REDACTED]. The nearby flare tower was built between the fall of [REDACTED]

Because of the very small scale and poor quality of the [REDACTED] and [REDACTED] coverage over this area, only major changes are noted above, as minor construction efforts could not be detected.

Examination of available photographic coverage between [REDACTED] and [REDACTED] indicates that the refinery was active throughout this period. Steam or smoke coming from various areas of the refinery is visible on all photographic coverage from this period.

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Units on which construction has taken place during this period appear to be either complete or in an advanced state of construction. No areas show signs of being in an early stage of construction on major processing units. However, much undeveloped acreage is available within and adjacent to Lyubertsy Refinery for further expansion, if desired.

All measurements have been made by the CIA/IAD/IF project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

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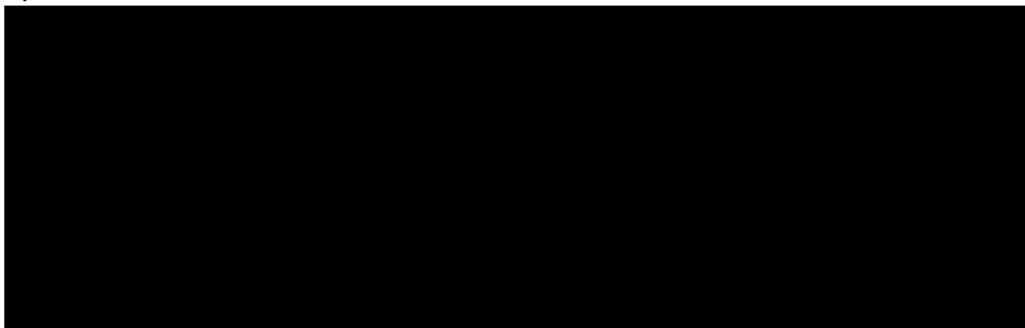
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REFERENCES

PHOTOGRAPHY

25X1D



MAPS OR CHARTS

General Locator Map, USSR - 29656 1-61 (UNCLASSIFIED)
ACIC, US Air Target Chart, Series 200, Sheet 0167-5HL,
2nd edition. April 1963 Scale 1:200,000 (SECRET)

REQUIREMENT

C-RR5-82,501

CIA/IAD PROJECT

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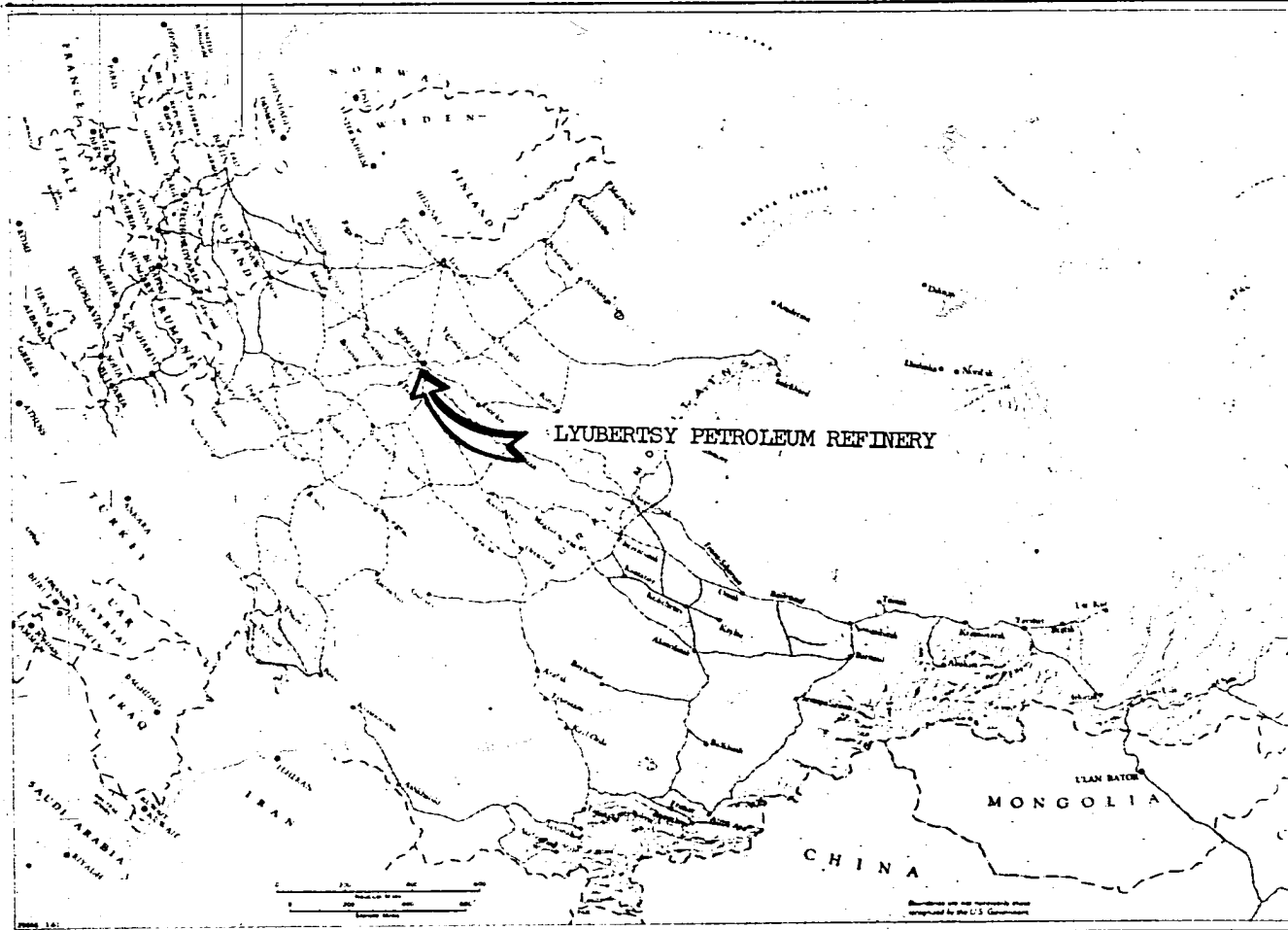
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FIGURE 1



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25X5

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NOTES: No TERRY KEYHOLE Center System Data

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FIGURE 3

LYUBERTSY REFINERY

MOSCOW, USSR

55 39N - 37 49E

25X1D

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NOTES: No TERRY KEYHOLE Center System Data

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FIGURE 4

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LYUBERTSY REFINERY
MOSCOW, USSR
55 39N - 37 49E

25X1D

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FIGURE 5



LYUBERTSY REFINERY
MOSCOW, USSR

25X1D 55 39N - 37 49E

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